

# Curriculum Vitae

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## Principal Engineer | People Lead | Senior Full Stack Engineer

JavaScript, Typescript, React, GraphQL, Redux, React Native, NodeJS, .NET C#, AWS, Azure

### Master of Software Engineer - MBA Software Management - BSc (Computer Science)

- Developed Frontend Single Page Applications (SPA) with **React, Redux, Angular**, and **Apollo Client GraphQL**, ensuring responsive design with **CSS, SASS**, and **styled-components**, and conducted comprehensive testing with **Jest, Enzyme, React Testing Library, Cypress**, and **TestCafe**.
- Built and maintained Frontend build tools using **Vite, Webpack, Grunt, Yarn**, and **NPM**, and developed mobile applications for **Android** and **iOS** using **React Native**.
- Engineered and maintained **Restful APIs** and **microservices** using **.Net C#, NodeJS, Express, Fastify, Entity Framework ORM** and **Postgres RDS**, incorporating **AWS services** like **Lambda, Step Functions, Event Bridge, SNS, SQS, Kinesis Data Firehose, S3, API Gateway**, and **DynamoDB**.
- Led Backend development with serverless architecture and microservices using **infrastructure as code (Terraform, SAM)** and **automated CI/CD pipelines** with **Gitlab, GitHub Actions** and **Jenkins**.
- Implemented and supported robust IT solutions and optimized existing systems using **AWS and Azure** cloud technologies, driving technological innovation and operational excellence.
- Utilized continuous integration and delivery tools, including **Git, GitHub, Gradle, Maven, NPM, Yarn, Artifactory, Docker, AWS ECS, Kubernetes**, and **SonarQube**, ensuring automated deployment and integration.
- **Managed teams** of 4-8 engineers, providing mentorship, career progression support, and maintaining high **performance KPIs**, while directing technical strategy for teams of software development.
- Led the coordination and execution of **large-scale production releases**, ensuring seamless operation and alignment with organisational goals, and **liaised with Business Analysts, Product Owners**, and other stakeholders.
- Provided **strategic direction** and **technical leadership** across projects, consulting with executive-level stakeholders and liaising with strategic partners to ensure project success and alignment with organisational goals.
- Implemented comprehensive **quality management** and **information security frameworks**, ensuring projects meet the highest standards of quality and security.

# Professional Work History

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## Principal Full Stack Engineer | People Lead

Aug 2021 – Present [Permanent]

Commonwealth Bank, Sydney, Australia [Hybrid / Remote]

Principal Engineering dedicated to delivering advanced payment systems for Business Banking, empowering merchants across Australia

### *Principal Engineer | People Lead*

- Leading two cross-functional squads of 8 permanent developers distributed across Melbourne and Sydney, balancing both hands-on technical work and leadership responsibilities.
- Split time equally between **hands-on coding** and team leadership activities focused on **strategy, mentoring, and performance management**.
- Mentoring team members to set clear, measurable goals and **support** their **career progression** through **continuous feedback, guidance, and professional development**.
- Driving team performance by coaching engineers to achieve and exceed their **KPIs**, ensuring a high standard of delivery and innovation throughout the year.
- Providing **technical strategy** and oversight for Backend **APIs** and **microservices**, ensuring scalable and maintainable codebases.
- Collaborating closely with **Business Analysts, Product Owners**, and other **stakeholders** to define requirements, managing expectations, and ensure timely software delivery and release management.
- Fostering a **DevOps culture**, working closely with Subject Matter Experts (**SMEs**) to streamline **CI/CD processes** and enhance team efficiency.
- Contributing with **Solution Design / Architect team** to design and build serverless and container based microservices.
- Coordination and execution of large **production releases**.
- Promoting **best practices** in software development across multiple engineering teams, emphasizing clean code, test-driven development (TDD), and continuous integration (CI).
- Supervising the development of Frontend and mobile applications, ensuring responsive and high-performance user experiences.

### *Backend Development*

- Expert in **serverless architecture** and **microservices**, leveraging **infrastructure as code** with tools such as **Terraform, AWS CloudFormation**, and **Jenkins** for automated **CI/CD** pipelines.
- Extensive experience building and maintaining **RESTful APIs** and **GraphQL** services using **Node.js, Express, Fastify**, and **.NET Core**, while incorporating modern frameworks like **Apollo Server**.
- Extensive experience with **AWS services**, including **Lambda, Step Functions, API Gateway, SNS, SQS, EventBridge, Kinesis Data Firehose, S3, DynamoDB**, and **KMS**, with a focus on building highly scalable, event-driven architectures.
- Skilled in database management with **Postgres RDS, MongoDB, DynamoDB**, and **Redis** for high-performance, distributed systems.
- Strong advocate for **test-driven development (TDD)**.
- Experience in **continuous integration** and **continuous deployment** (CI/CD) using tools like **Jenkins, GitLab**, and **GitHub Actions**.
- Integrated **Docker** containers with **AWS services**.

# Professional Work History

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## *Frontend Development*

- Developing **Single Page Applications (SPA)** using **React.js**, **Redux**, and **Apollo Client** for seamless integration with GraphQL Backends.
- Deep expertise in **Frontend testing** with tools such as **Jest**, **React Testing Library**, **Cypress**, **Enzyme**, **TestCafe**, and **SonarQube**, ensuring high test coverage and robust user experiences.
- Proficient in modern build tools like **Vite**, **Webpack**, **Grunt**, **Yarn**, and **NPM**, ensuring optimized, production-ready code.
- Responsive styling using **CSS**, **SASS**, **styled-components** and **HTML5** including accessibility concerns.

## **Lead Full Stack Engineer**

Aug 2020 – Aug 2021 [Contractor]

BHP – Mitsubishi Alliance [BMA], Brisbane, Australia

Engineered, built and supported crucial full stack systems across the organisation.

## *Backend Development*

- Designed and implemented **serverless architecture** and **microservices** using **infrastructure as code** with tools like **Terraform**, **SAM**, and **GitLab runners** for fully automated **CI/CD** pipelines
- Extensive experience in **AWS services**, including **CloudFormation**, **Lambda**, **ECS**, **EventBridge**, **SNS**, **SQS**, **S3**, **KMS**, **API Gateway**, and **Docker containers**, ensuring scalable, secure, and high-performance Backend systems.
- Developed robust **RESTful APIs** and microservices using **ASP.NET**, **.NET C#** and **Postgres RDS**, delivering reliable and efficient Backend solutions for critical business processes.
- Implemented **Entity Framework** with **PostgreSQL** as our default **ORM** for .Net applications
- Implemented **Repository Pattern**, **Factory Pattern** and **Dependency Injection** as **Design pattern** for **.Net C#**

## *Frontend Development*

- Built responsive, high-performance **Single Page Applications (SPAs)** using **Typescript**, **React.js** and **Redux** and **React Query** as **state management tools**, ensuring a seamless user experience across platforms
- Expertise in **Frontend testing**, including unit, end-to-end, and integration tests, using tools like **Jest**, **Enzyme**, **React Testing Library**, and **Cypress** to maintain high-quality standards.
- Skilled in using modern build tools such as **Vite**, **Webpack**, **Yarn**, and **NPM**, optimizing Frontend workflows and ensuring smooth deployment processes.
- Implemented **Atomic Design principles** delivering responsive and accessible web designs, using **CSS**, **SASS**, **styled-components**, and **HTML5**, with a strong focus on accessibility standards.

# Professional Work History

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## Engineering Chapter Lead

Oct 2017 – Sep 2020 [Permanent]

National Australia Bank, Melbourne, VIC, Australia

Engineering Chapter Lead focused on, building, integrating and supporting crucial full stack systems across the organisation.

### *Engineering Management / People Lead*

- Lead **technical direction** and strategy for both **Frontend** and **Backend** codebases, driving innovation and ensuring **scalable, high-quality solutions** across projects.
- Liaised with **Business Analysts**, **Product Owners**, and senior management to align on delivery timelines, set realistic expectations, and ensure seamless software releases.
- Cultivated a **DevOps culture**, focusing on delivering production-ready code with strong collaboration between development and operations teams.
- Worked closely with **Solution Designers**, **UX Designers**, and engineering teams within an **Agile environment**, ensuring solutions meet both technical and **user-centric requirements**.
- Directed the coordination and execution of **large-scale production releases**, ensuring minimal downtime and smooth transitions.
- Implemented and supported **AWS cloud architecture**, including **CloudFormation**, **CloudWatch**, **X-ray**, **DynamoDB**, **SQS**, **SNS**, **Lambda**, and other cloud-native services with **Azure**.
- Utilized a wide range of **CI/CD tools** (Git, Jenkins, NPM/Yarn, Artifactory, Docker, AWS ECS, Kubernetes, SonarQube) to automate and streamline development pipelines.
- Led daily **scrum meetings**, sprint planning, and retrospectives to maintain focus and deliver on time.
- **Mentored** and **coached engineers**, fostering a culture of continuous improvement and **best practice adoption** across teams.

### *Frontend Development*

- Developed complex **Single Page Applications (SPAs)** using **React.js**, **Redux**, **Angular.js**, and **Apollo Client GraphQL**, focusing on performance and user experience.
- Hands-on experience with comprehensive Frontend testing, using **Jest**, **Enzyme**, **React Testing Library**, **Cypress**, **TestCafe**, and **Protractor** to ensure code reliability.
- Utilized build tools such as **Grunt**, **Webpack**, **Yarn**, and **NPM** to optimize and streamline Frontend workflows.
- Delivered **responsive, accessible web applications** using **CSS**, **SASS**, **styled-components**, and **HTML5**, adhering to the latest accessibility standards.

### *Backend Development*

- Designed and built **serverless architectures** and **microservices** using **infrastructure as code** and tools like **Jenkins** for automated CI/CD, as well as **GraphQL** and **Apollo Server**.
- Extensive experience with **AWS services** like **Lambda**, **Step Functions**, **SNS**, **SQS**, **API Gateway**, **CloudFormation** and **S3** for developing resilient, event-driven applications.
- Developed **RESTful APIs** and microservices using **Node.js**, **Express**, **Apache Kafka** for event streaming, and databases like **Redis**, **DynamoDB**, **MongoDB**, and **Postgres RDS**.
- Maintained high-quality code standards with **unit tests**.

## Professional Work History

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### Senior Full Stack Software Engineer

Jun 2017 – Dec 2017 [Contractor]

DreamWalk, Melbourne, VIC, Australia

### Senior Full Stack Software Engineer

Aug 2016 – Jul 2017 [Contractor]

Arkade Loyalty Agency, Melbourne, VIC, Australia

### Senior Full Stack Software Engineer

Jun 2015 – Aug 2016 [Permanent]

Elmo Talent Management Software, Melbourne, VIC, Australia

### Senior Full Stack Software Engineer

Jan 2015 – Jun 2015 [Contractor]

Trout Creative, Melbourne, VIC, Australia

### Lead Web Developer / Management Information Systems Expert (MIS SME)

Sept 2009 – Dec 2014 [Permanent]

United Nations - International Labour Organization (ILO), Indonesia, East Timor and New York, USA

### Business Analyst

Jan 2014 – May 2014 [Part-time Contractor]

World Bank, Washington, D.C - USA

### Web Developer / Systems Analyst

Nov 2008 – Nov 2009 [Contractor]

United Nation Development Programme (UNDP), New York, USA and East Timor

### Systems Analyst / Web Developer

Sept 2007 – Nov 2008 [Permanent]

University of Goias – Medical School Hospital, Goiania, Brazil (Health/Education)

### Support Analyst

Apr 2004 – Aug 2007 [Permanent]

Caixa Economica Federal, Goiania, Brazil (Largest financial bank in Brazil)

### Network Technician

Feb 2002 – Oct 2003 [Permanent]

Brasil Telecom, Goiania, Brazil

## Education & Qualifications

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### **Master of Software Engineering**

University of Turin & ITCILO – Online, Italy (2012 - 2014)

### **MBA in System Information**

ESAB University – Online, Brazil (2008 - 2009)

### **MBA in Software Management**

Uni-Anhanguera University, Brazil (2007 - 2008)

### **Bachelor of Computer Science**

Unip University, Brazil (2003 - 2007)

### **Associate of Science, As Computer Science**

University of Toronto, Canada (2001 - 2003)